

MX80M Free Travel and Micrometer Driven Stages

Features

- Precision cross roller bearings
- Optional cleanroom prep.
- Optional low ESD coating
- Dowel holes in top & base
- Interchangeable mounting with motorized MX80 models
- Positive position lock

The MX80M stages are offered as free travel or micrometer driven units with 25 mm or 50 mm travel. They include innovative tooling features to make mounting and precision alignment quicker and easier. A hardened steel master reference surface is provided along the side of the stage to allow fixturing or other tooling elements to be precisely aligned with the actual travel path. Dowel pin holes are provided on the carriage top for repeatable mounting or tooling. Also available are custom features such as a steel body design, vacuum prepped units, and anti cage creep bearings for high-dynamic applications up to 150 mm travel.



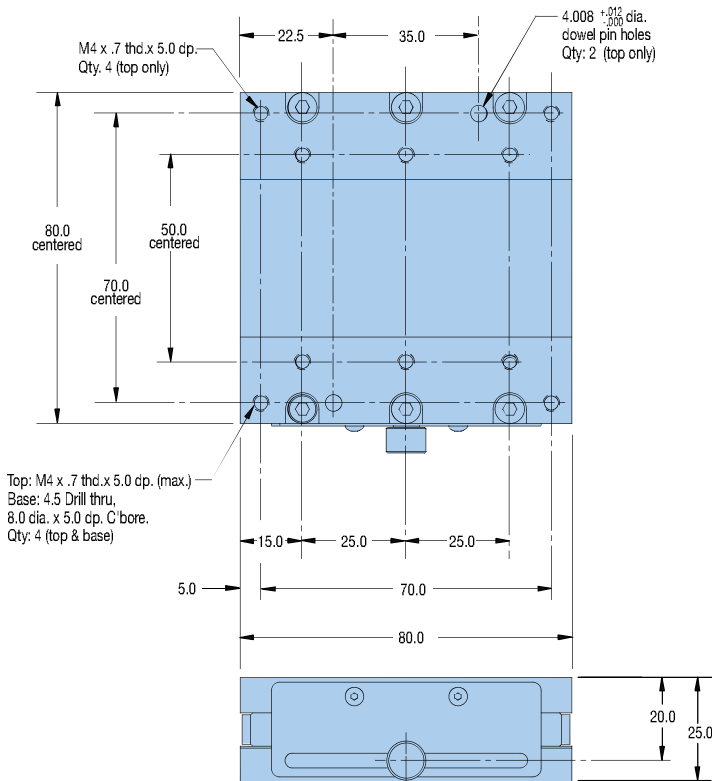


		MX80M Free Travel		MX80LM Micrometer Driven	
Travel (mm)		25	50	25	50
Normal Load Capacity	kg (lb)	20 (44)	20 (44)	20 (44)	20 (44)
Axial Force ⁽¹⁾					
F_a	kg	—	—	4.5	4.5
F_b		—	—	0.6	1.0
Straight Line Accuracy (per 25 mm travel)	μm	2	2	2	2
Micrometer Resolution					
0.001 in		—	—	Yes	Yes
0.01 mm		—	—	Yes	Yes
Digital Micrometer					
0.00005 in		—	—	Yes	Yes
0.001 mm		—	—	Yes	Yes

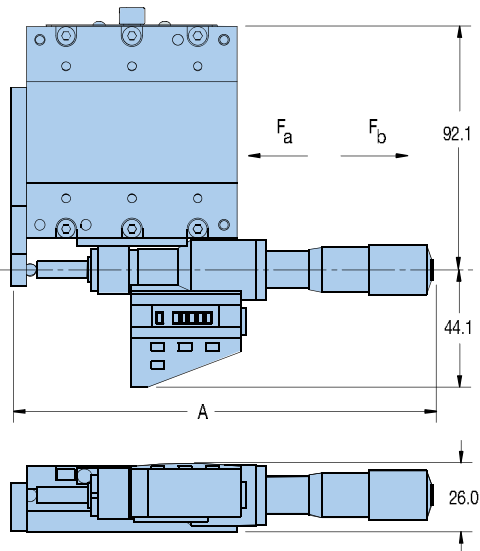
⁽¹⁾ F_a (force acting against micrometer)
 F_b (force acting against spring)

Free Travel (with position lock)

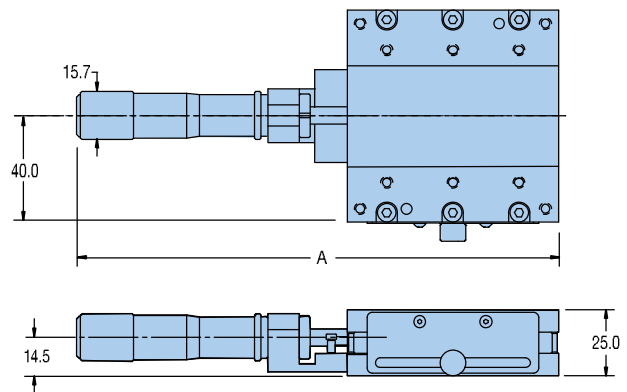
Dimensions (mm)



Digital Micrometer (side drive shown)



Standard Micrometer (center drive shown)



Drive Orientation	Travel	Dimension A (mm)
Center	25	225.6
	50	273.5
Side	25	160.6
	50	209.5

Drive Orientation	Travel	Dimension A (mm)
Center	25	182.2
	50	231.4
Side	25	117.2
	50	167.4



Fill in an order code from each of the numbered fields to create a complete model order code.

	①	②	③	④	⑤	⑥	⑦	⑧	⑨	
Order Example:	MX80M	T02	M	-	S	C2	D22	R1	X4	S1

① **Series**
MX80M

② **Travel – mm**
T01 25
T02 50

③ **Mounting**
M Metric

④ **Grade**
S Standard

⑤ **Style**
C1 Free Travel
C2 Center Drive
C3 Side Drive

⑥ **Drive Type**
D1 None
D20 Metric Micrometer
D21 English Micrometer
D22 Digital Micrometer

⑦ **Environmental**
R1 Standard Finish (black anodized)
R2 Cleanroom Prep
R10 Low ESD Finish
R20 Low ESD Finish & Cleanroom Prep

⑧ **Lock Options**
X1 No Lock
X4 With Lock

⑨ **Axis Designator**
S1 None (single-axis)
S2 X-axis base unit (micrometer @ 12 o'clock)
S3 Y-axis 60 arc-sec (micrometer @ 3 o'clock)
S4 Y-axis 60 arc-sec (micrometer @ 9 o'clock)
S5 Y-axis 15 arc-sec (micrometer @ 3 o'clock)
S6 Y-axis 15 arc-sec (micrometer @ 9 o'clock)

Miniature Positioners